

**NDIA National Summit  
Long Beach California  
26-30 March 01**

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## Scope of Presentation

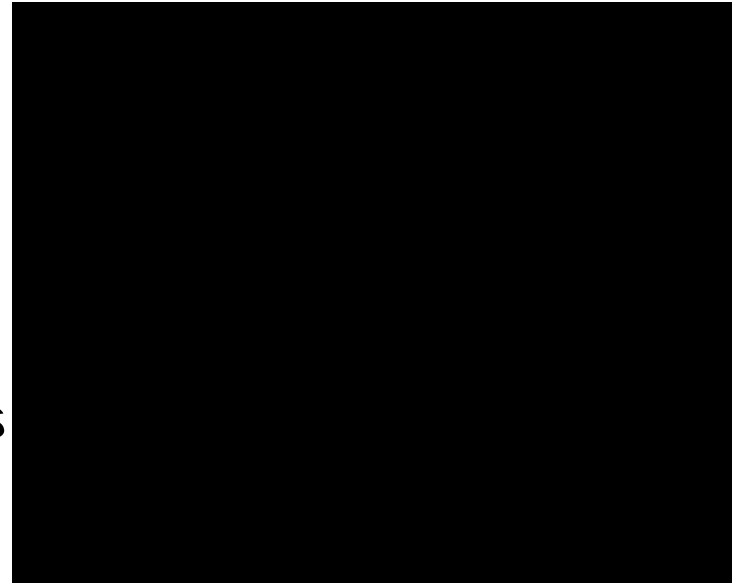
- Strategic Environment
- T&E Organisation
- Defence Ranges and Test Facilities
- International Cooperation
- Some T&E Issues for Australia

# Australia's Strategic Environment

- *Defence Efficiency Review*  
resulted in major structural changes with a focus on consolidation of many functions including acquisition
- *Defence White Paper*  
released in Dec 2000, the most comprehensive review of Defence policy since the mid 80's.
- *Recent Deployments*  
East Timor  
Sydney Olympic Games

## Defence 2000 White Paper "Our Future Defence Force"

- Foundations
- Strategy
  - Interests and Objectives
  - International Relationships
- People
- Capability Objectives
  - Costed plan for the next 10 years
  - Industry development
  - Science and Technology
- Funding Plan
  - 3% increase pa over the decade



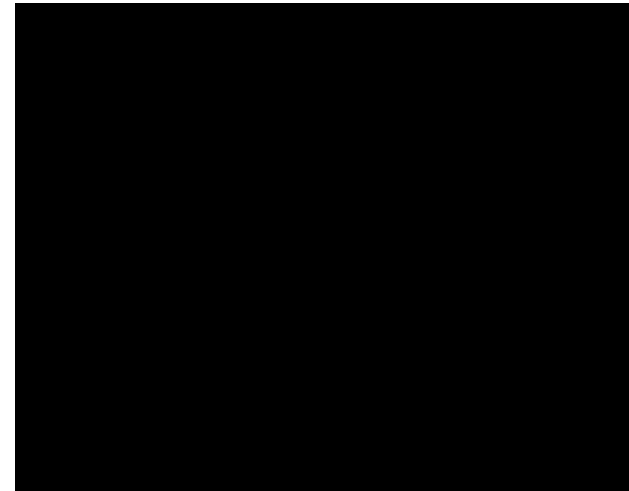


## Test and Evaluation Overview

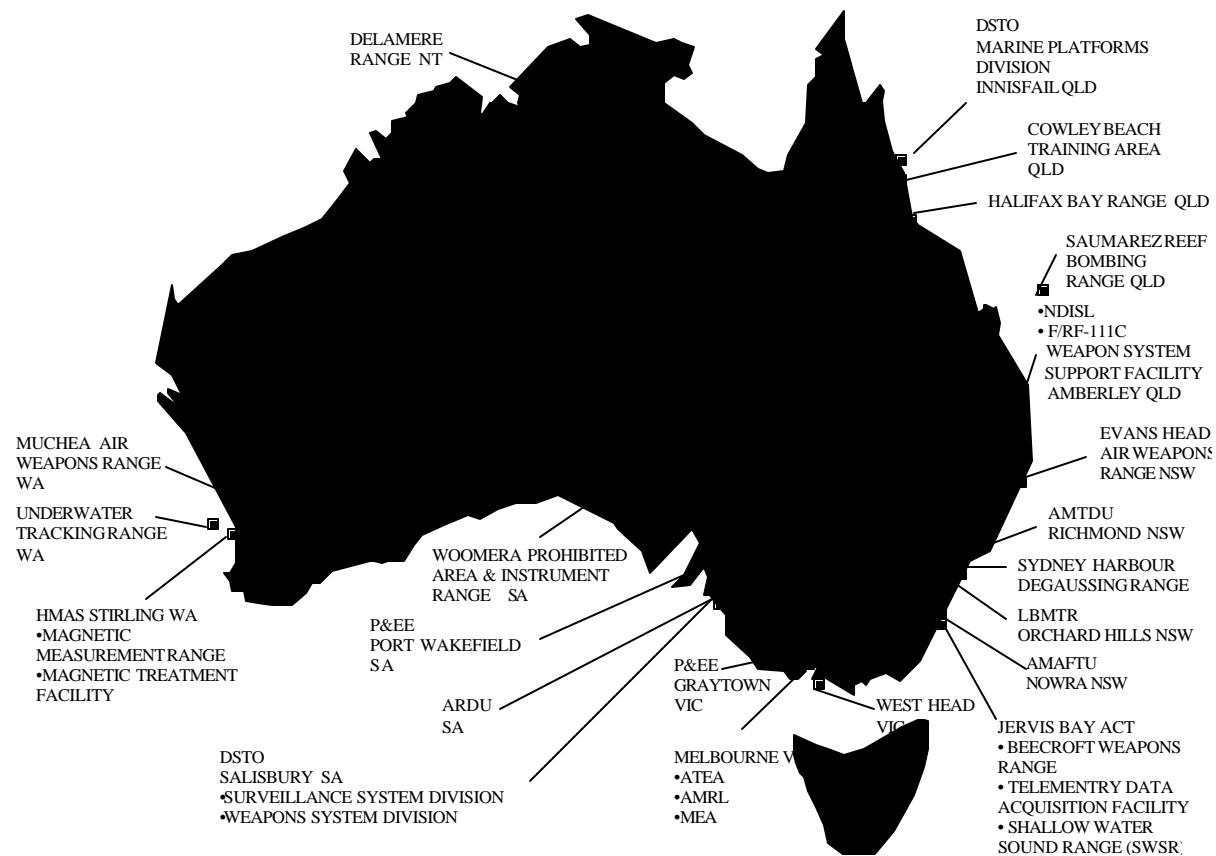
- Organised along single Service lines
- Each Service has a number of T&E agencies
- Directorate of Trials (part of DSTO) provides independent T&E support to the Australian Defence Organisation

## Directorate of Trials [COL Brian Hall - DTrials]

- **Manages 'Defence Trials'**
  - across organisational boundaries
  - an impartial tester
- **promote T&E policy development**
- **coordinate S&T participation in defence force exercises and other activities**
- **focal point for international T&E activities**



# Defence Owned Ranges and Test Facilities



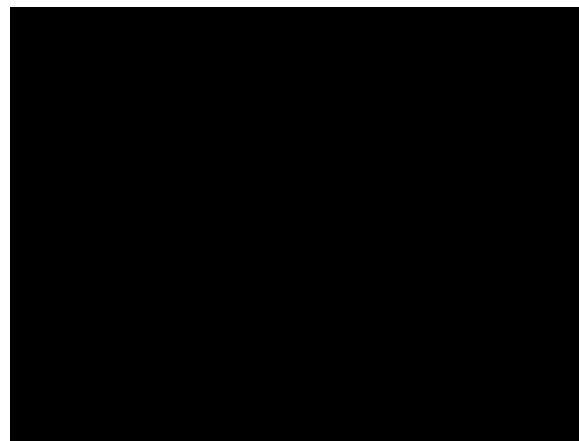
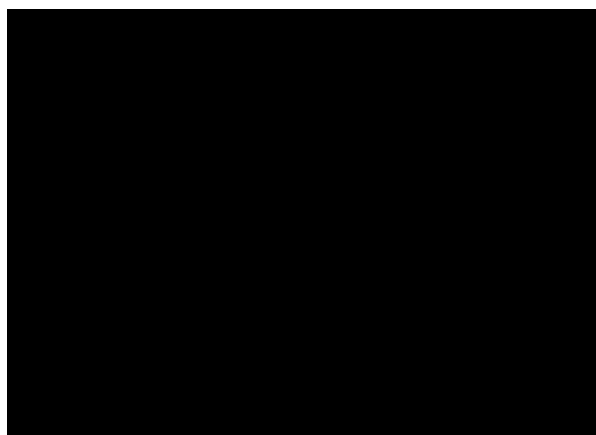
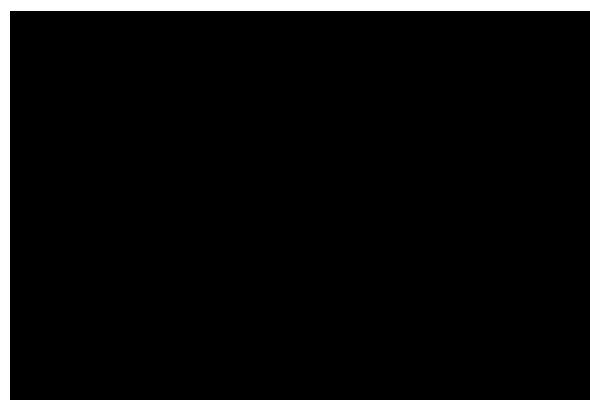
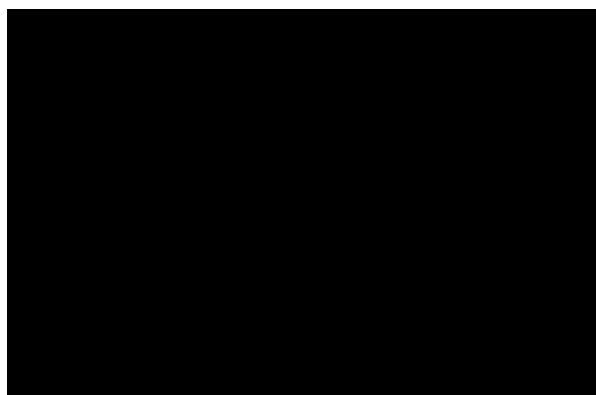
## Major Navy T&E Facilities

- Aircraft Maintenance and Flight Trials Unit  
(Nowra, NSW)
- Degaussing Range Facility  
(Sydney Harbour, NSW)
- Shallow Water Sound Range  
(Jervis Bay, ACT)
- Telemetry Data Acquisition Facility  
(Jervis Bay, ACT)
- Magnetic Measurement Range  
(Garden Island, WA)

## Major Army T&E Facilities

- Proof and Experimental Establishments
  - Graytown, Victoria
  - Port Wakefield, SA
- Land Engineering Agency
  - Melbourne, VIC

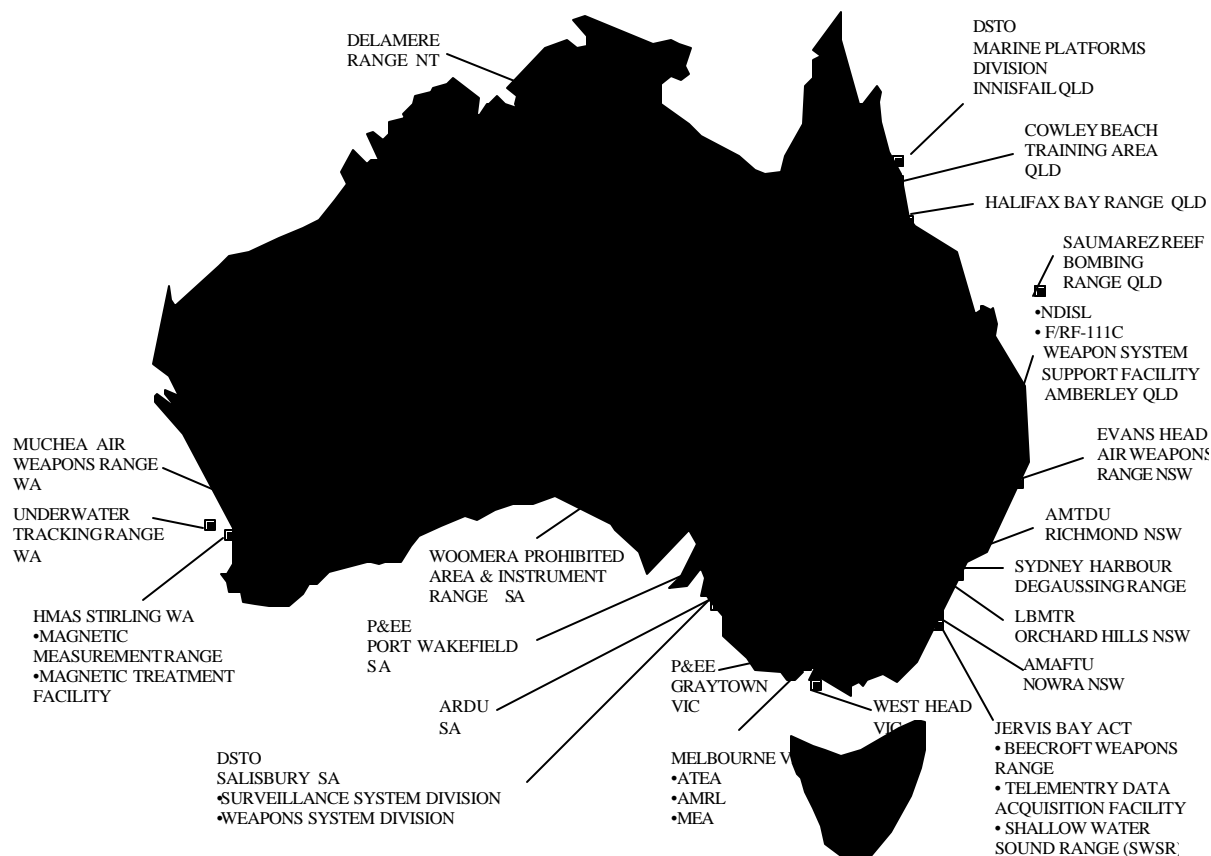
# Proof & Experimental Establishments



## Major RAAF T&E Facilities

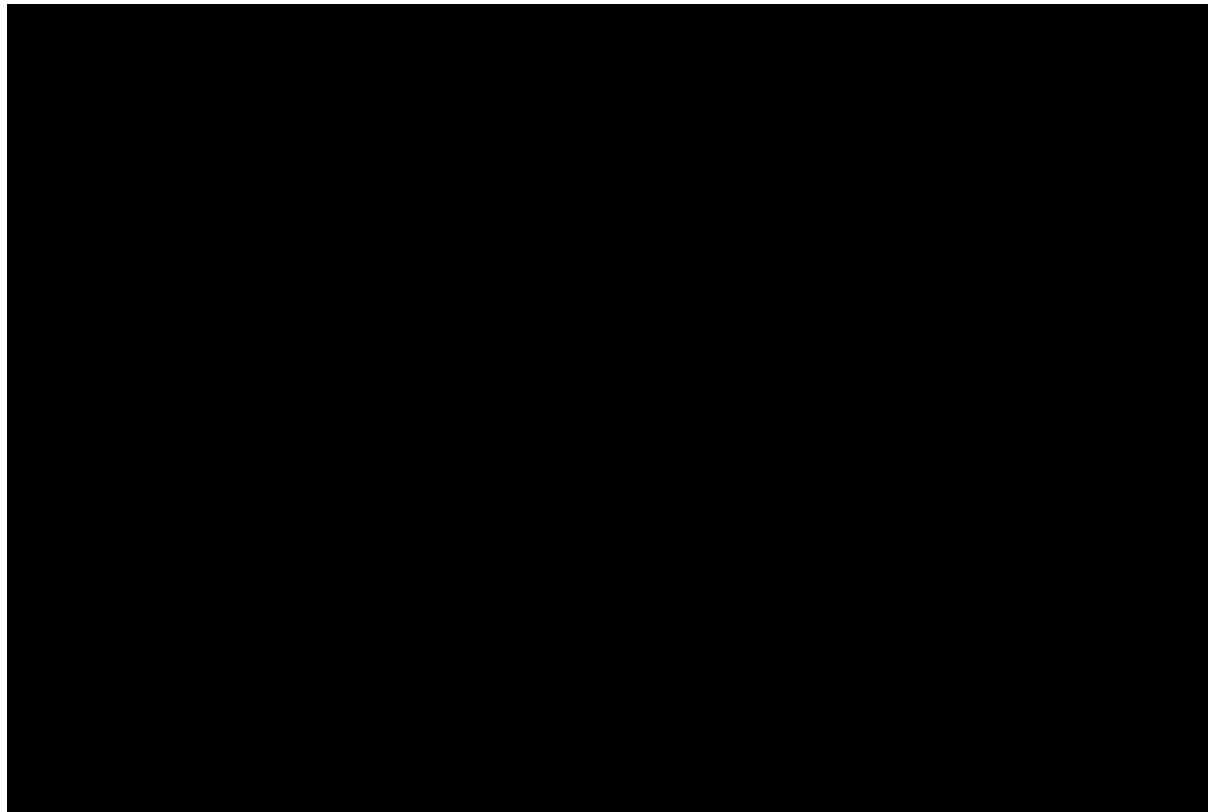
- Aircraft Research and Development Unit  
(Salisbury, SA)
- Air Movements Training and Development Unit  
(Richmond NSW)
- Woomera Instrumented T&E Range  
(Woomera, SA)

# Woomera Prohibited Area (127,000 km<sup>2</sup>)

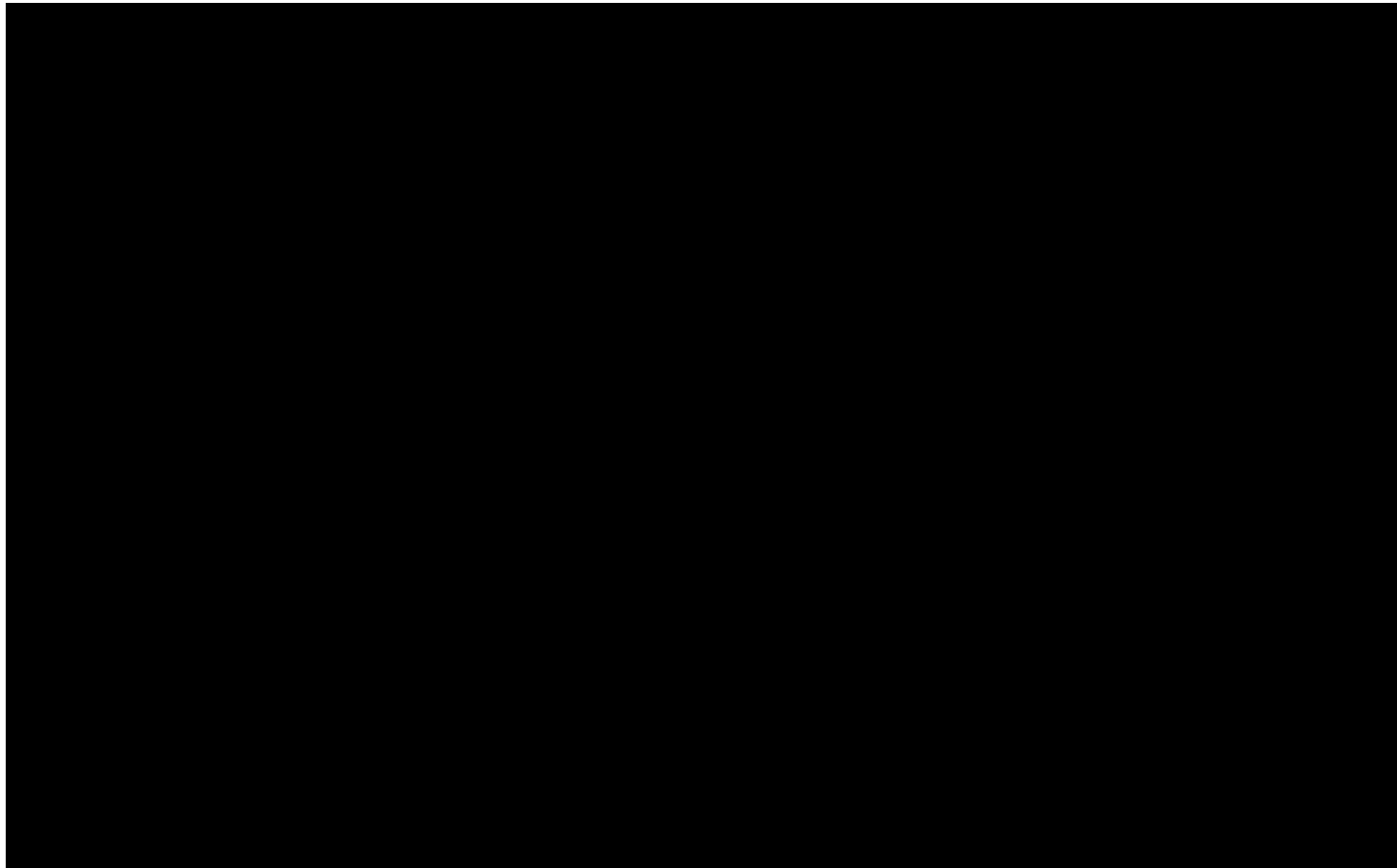




## Woomera Area 6 Launch Pad in 1960's ('*Europa*')



## Blast Trials at Woomera (40 tonne)

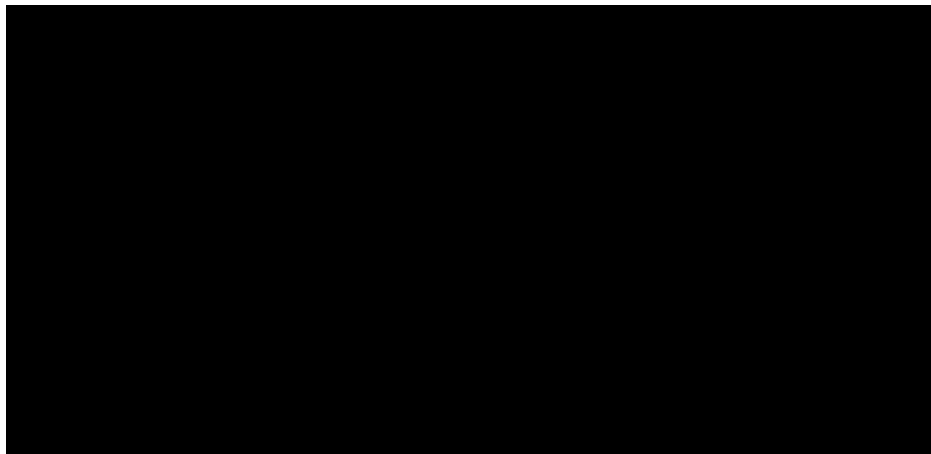
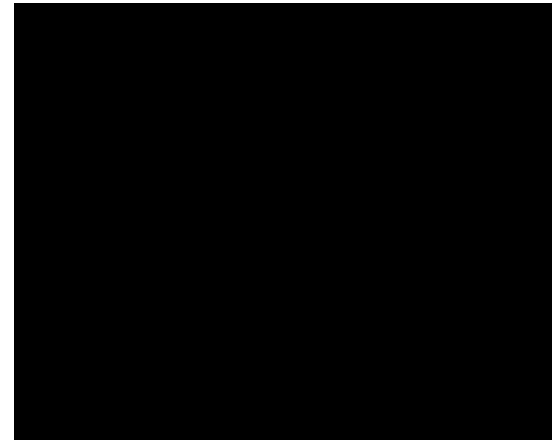


## DSTO Laboratories & Locations

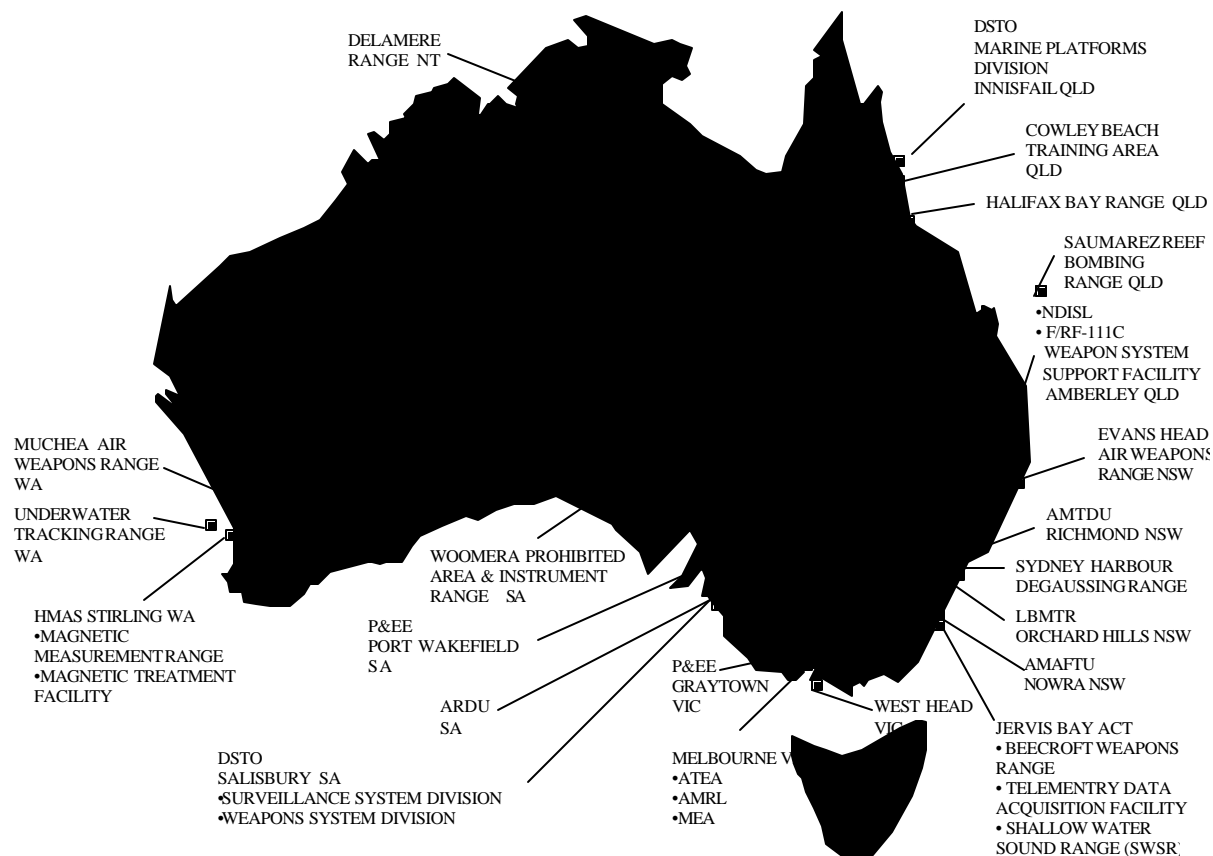
- Aeronautical & Maritime Research Laboratory
- Electronics & Surveillance Research Laboratory
- Central Office (including DTrials) (Canberra)
- Research facilities in  
Canberra (ACT), Fishermans Bend and Maribrynong  
(VIC), Salisbury (SA), Sydney (NSW), HMAS Stirling  
(SA), Scottsdale (TAS) and Innisfail (QLD)
- <http://www.dsto.defence.gov.au>

## Laboratory Testing - e.g. Underwater Blast

As an adjunct to field testing,  
controlled laboratory tests can  
provide important opportunities for  
full scale & sub-component  
evaluation and model development



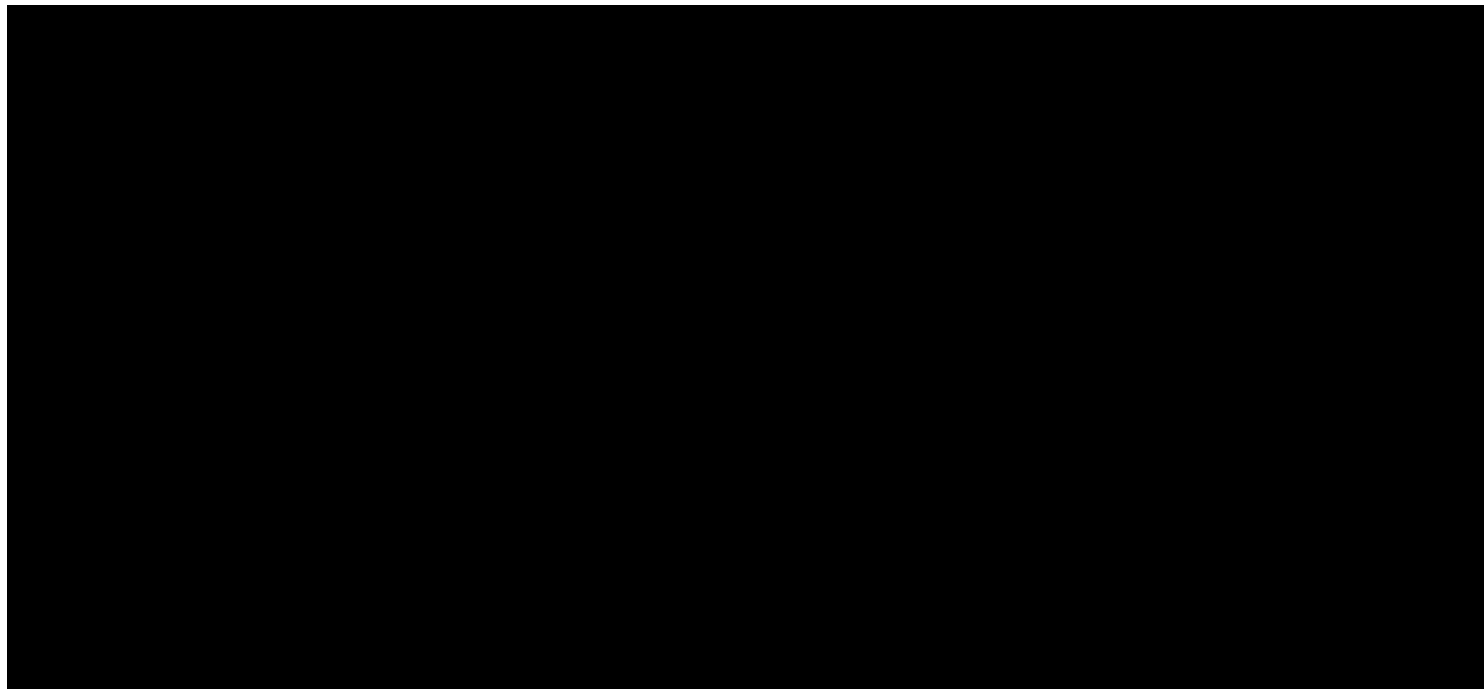
## DSTO's Environmental Test Sites in QLD



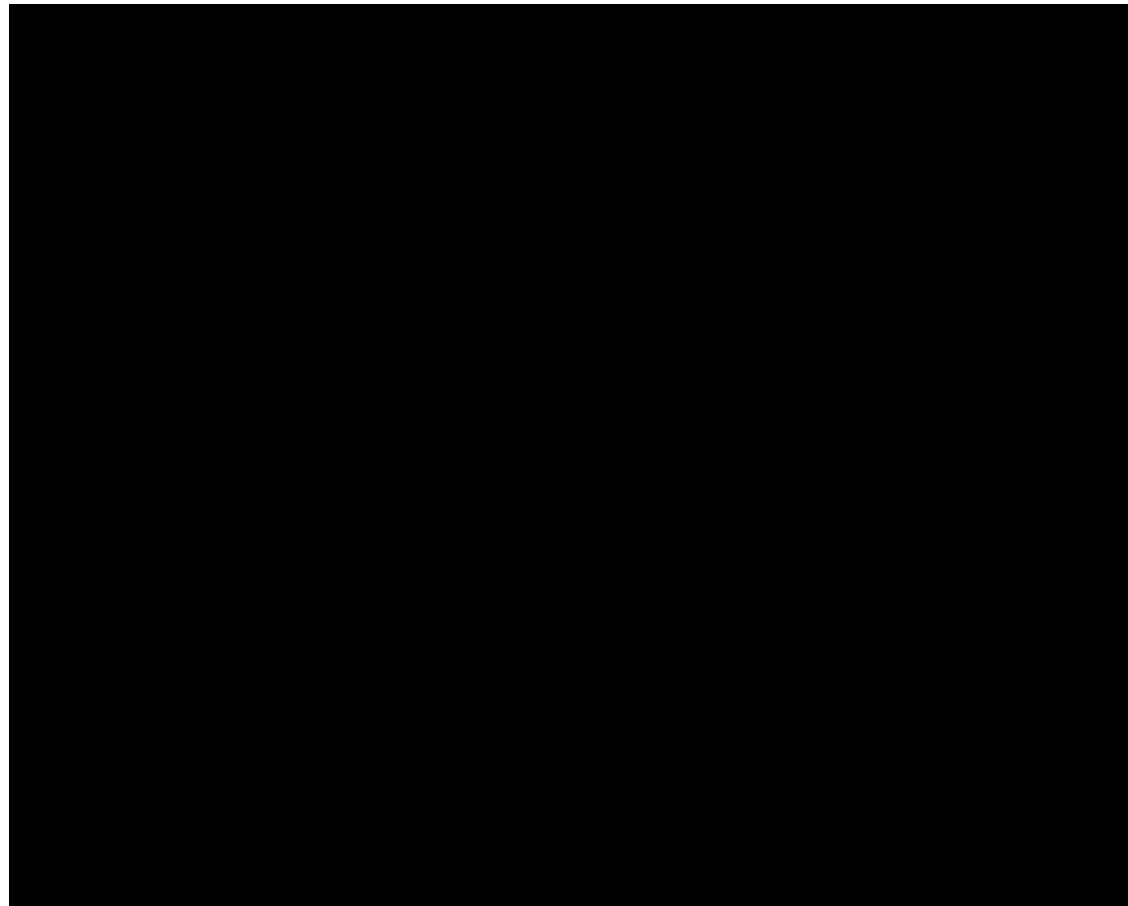
## DSTO (Queensland) Exposure Test Sites

- Innisfail (Principal site - Pin Gin Hill)  
Hot and wet
- Cowley Beach (30 km south of Innisfail)  
High salinity
- Cloncurry (1000 km west of Innisfail)  
Hot and Dry

## International cooperative trials (HMAS Derwent)



## Global Hawk UAV Australian Deployment





## Some Types of Govt-Govt Agreements

### Billateral (e.g. AS/US)

- Data Exchange Agreements
- Cooperative Research and Development Agreements  
e.g. 'Deutch-Ayers Agreement' - work done as PA's
- Stand alone MoUs

### Multinational T&E Linkages

- ITEPs
- S&T - The Technical Cooperation Program (TTCP)
- Service standardisations programs e.g. ABCA, ASCC

## Some T&E Issues for Australia

- T & E policy and organisational structure in the process of further development
- Embracing the spectrum of telemetry issues is a major challenge
- T&E support for major platform acquisitions challenging
- Need to work with allies to identify areas of commonality and highest cooperation pay-off
- Desire to explore opportunities for bringing together similar agreements

## QUESTIONS?

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Defence White Paper -

<<http://www.defence.gov.au/whitepaper>>